

## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/BA-5					R-1 ITEM NOMENCLATURE Common Joint Tactical Information 0604771D8Z/P771/P773			
COST <i>(In Millions)</i>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Total Cost
Total Program Element (PE) Cost	16.100	16.328	10.797	10.863	18.859	19.205	19.571	Continuing
LINK-16 - P771	4.025	5.470	3.703	5.138	15.464	19.205	19.571	Continuing
Multifunctional Information Distribution System-Low Volume Terminal (MIDS-LVT) - P773	12.075	10.858	7.094	5.725	3.395			

A. Mission Description and Budget Item Justification

This program funds ongoing system level engineering of the existing Link 16 system for joint interoperability and the development of the next generation Link 16 system, the Multifunctional Information Distribution System (MIDS). System level engineering responsibilities include Link 16 spectrum issues and Link 16 joint enhancements. Spectrum issues include system engineering, testing, maintaining necessary equipment, performing DoD internal and external coordination and platform integration/certification required to coexist and operate in the Air Radio Navigation Safety frequency band. Joint enhancements planned for Link 16 include Dynamic Network Management (DNM), Time Slot Reallocation (TSR), Gateways, Joint Interface Control Officer (JICO) Toolset, Relative Navigation, Link 16 Weapons Applications and improvements to Link 16 Track Quality, Time Slot Synchronization, Target Correlation/Decorrelation, Geodetic Data Registration, Common Time Reference, and Combat ID. MIDS is a joint and international cooperative program involving U.S., France, Italy, Germany and Spain. Designed for tactical combat applications and environments, MIDS will provide a highly jam-resistant, secure digital (voice and data) information distribution system, enabling rapid integrated communications, navigation, and identification among tactical and command and control warfare elements. The MIDS-Low Volume Terminal (LVT) will make Link 16 more affordable for a larger population of U.S. platforms and systems and will be interoperable with previously developed and produced Link 16 equipment, JTIDS Class 1 and 2. Affordability is being achieved through the implementation of open and commercial architecture standards and parts that will allow the tailoring of production configurations to the minimum needs of different U.S. platforms and missions. This program funds the U.S. cost share of MIDS development, fabrication, and test of EMD terminals and terminal level pre-operational support for U.S. platforms which are implementing MIDS.

This program is funded under BA-5, Engineering and Manufacturing Development, because it encompasses engineering and manufacturing development of new end-items prior to production approval decision.

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- Program Change Summary -

B. Program Change Summary

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
Previous President's Budget	16.100	16.572	16.901	Continuing
Appropriated Value	4.025			
Adjustments to Appropriated Value				
a. Congressional Directed Undistributed Reductions		-.244		
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment				
c. Other			-6.104	
FY 2003 President's Budget Submit	16.100	16.328	10.797	Continuing

## Change Summary Explanation

FY 2002: Adjustments for FFRDC reductions (Section 8032) -.127; Crossing-cutting congressional adjustments (Section 8123) -.117.

FY 2003: Funding transfer to support AF CSEL program -6.000; Non-pay purchase inflation adjustments -.045.

Schedule: N/A

Technical: N/A

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APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/BA-5						R-1 ITEM NOMENCLATURE Common Joint Tactical Information 0604771D8Z/P771		
COST (In millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Total Cost
LINK-16 - P771	4.025	5.470	3.703	5.138	15.464	19.205	19.571	Continuing

A. Mission Description and Budget Item Justification

This program funds ongoing system level engineering of the existing Link 16 system for joint interoperability and the development of the next generation Link 16 system, the Multifunctional Information Distribution System (MIDS). System level engineering responsibilities include Link 16 spectrum issues and Link 16 joint enhancements. Spectrum issues include system engineering, testing, maintaining necessary equipment, performing DoD internal and external coordination and platform integration/certification required to coexist and operate in the Air Radio Navigation Safety frequency band. Joint enhancements planned for Link 16 include Dynamic Network Management (DNM), Time Slot Reallocation (TSR), Gateways, Joint Interface Control Officer (JICO) Toolset, Relative Navigation, Link 16 Weapons Applications and Improvements to Link 16 Track Quality, Time Slot Synchronization (TSS), Target Correlation/Decorrelation, Geodetic Data Registration, Common Time Reference, Time Critical Strike (TCS) and Combat ID.

## PROGRAM ACCOMPLISHMENTS AND PLANS

## 1. FY 2001 ACCOMPLISHMENTS

Continue Link 16 (\$4.025)

- Obtained final spectrum Certification.
- Continued spectrum management efforts, including testing, associated with receiving and maintaining frequency certification.
- Continued Link 16 technical upgrade and support for international users.
- Continued technical oversight, planning, and Joint Service Coordination of Link 16 enhancements including Dynamic Network Management, and Joint Interface control Officer Toolset Support System (JSS).

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## 2. FY 2002 PLANS

Continue Link 16 (\$5.470)

- Continue spectrum management efforts, including testing associated with receiving and maintaining frequency certification.
- Continue Link 16 technical upgrade and support for international users.
- Continue technical oversight, planning, and Joint Service Coordination of Link 16 enhancements including Dynamic Network Management, Joint Interface Control Officer Toolset Support System (JSS), Gateways and Missile Tactical Terminals.

## 3. FY 2003 PLANS

Continue Link 16 (\$3.703)

- Continue spectrum management efforts, including testing associated with receiving and maintaining frequency certification.
- Continue Link 16 technical upgrade and support for international users.
- Continue technical oversight, planning, and Joint Service Coordination of Link 16 enhancements including Dynamic Network Management, Joint Interface Control Officer Toolset Support System (JSS), Gateways and Missile Tactical Terminals.

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B. Program Change Summary

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
Previous President's Budget	4.025	8.971	10.003	Continuing
Appropriated Value	4.025			
Adjustments to Appropriated Value				
a. Congressional Directed Undistributed Reductions		-.087		
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment		-3.414		
c. Other			-6.300	
FY 2003 President's Budget Submit	4.025	5.470	3.703	Continuing

## Change Summary Explanation

FY 2002: Adjustments for FFRDC reduction (Section 8032), and Cross-cutting congressional adjustments (Section 8123) -.087. Realignment of funds from P771 to P773 in support of the SE&I contract and the High Level Language CPU upgrade -3.414.

FY 2003: Funding transfer to support AF CSEL program, and Non-pay purchase inflation adjustments - 2.076. Realignment of funds from P771 to P773 in support of the SE&I contract and the High Level Language CPU upgrade -4.155.

Schedule: N/A

Technical: N/A

C. Other Program Funding Summary: Not ApplicableD. Schedule Profile: Not Applicable

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE February 2002	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/BA-5					R-1 ITEM NOMENCLATURE Common Joint Tactical Information 0604771D8Z/P773			
COST ( <i>In millions</i> )	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Total Cost
MIDS - P773	12.075	10.858	7.094	5.725	3.395			

A. Mission Description and Budget Item Justification

The Multifunctional Information Distribution System (MIDS) Low-Volume Terminal (LVT) is a U.S. joint and international (U.S., France, Germany, Italy, and Spain) cooperative program to develop and produce the next generation LINK-16 system. Designed for tactical combat applications and environments, MIDS will provide a highly jam-resistant, secure, digital (voice and data) information distribution system, enabling rapid integrated communications, navigation, and identification among tactical and command and control warfare elements. Affordability is being achieved through the implementation of open and commercial architecture standards and parts which will allow the tailoring of production configurations to the minimum needs of different U.S. platforms and missions. MIDS-LVT will be interoperable with the earlier generations of LINK-16 equipment, JTIDS Class 1 and 2. This Program Element will fund the U.S. cost share of development, fabrication and test of EMD terminals, and terminal level pre-operational support for U.S. platforms which are implementing MIDS. This element also funds preparations for competitive production. This element does not include the qualification and procurement of a MIDS variant for the F-15 which is called Fighter Data Link (FDL); the FDL is funded as an F-15 program element.

## PROGRAM ACCOMPLISHMENTS AND PLANS:

## 1. FY 2001 ACCOMPLISHMENTS:

- EMD Terminal and Platform Integration Support (\$12.075)
- Continued integration, testing, and delivery of EMD terminals and refurbish CDT&E terminals.
- Completed initial at-sea Developmental Test for MIDS on Ship.
- Continued F/A-18 Initial Developmental and Operational Test & Evaluation terminal support.
- Continued F/A-18 flight testing support.
- Continued correction of EMD deficiencies resulting from operational testing.
- Performed redesign and regression testing of EMD terminals.
- Continued SE&I support capabilities for EMD terminals and platform test, installation, and integration requirements.
- Provided U.S. Engineering Release to support F/A-18, F-16, and Army platform testing requirements.

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- Completed software enhancements/upgrades for Army terminals, LVT(2).

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- Initiated hardware upgrades and repairs for Army terminals, LVT(2).
- Continued software support capability and technical data support for MIDS International Program.
- Initiated second software block cycle upgrade.
- Supported development, test, and evaluation of product improvements and enhancements.
- Initiated Developmental Test and Evaluation terminal support for F-16.
- Initiated Developmental Test and Evaluation test flights for F-16.
- Defined plans and requirements for Technology Enhancements studies.

2. FY 2002 PLANS:

- EMD Terminal and Platform Integration Support (\$10.858)
  - Continue F/A-18 MIDS Developmental Testing.
  - Complete F/A-18 Technical Evaluation.
  - Initiate Army Initial Operational Test and Evaluation for LVT(2).
  - Achieve Army Initial Operational Capability for LVT(2).
  - Continue software enhancements/upgrades for Army terminals, LVT(2).
  - Complete hardware upgrades and repairs for Army terminals, LVT(2).
  - Continue correction of EMD deficiencies resulting from operational testing and evaluation.
  - Continue supporting development, test and evaluation of product improvements and enhancements.
  - Continue the SE&I support capabilities for EMD terminals and platform test, installation, and integration requirements.
  - Continue U.S. Engineering Releases to support F/A-18, F-16, and Army platform testing requirements.
  - Perform redesign and regression testing of EMD terminals.
  - Integrate MIDS on Ship with shipboard combat systems and conduct testing.
  - Continue Developmental Test and Evaluation terminal support for F-16.
  - Continue Developmental Test and Evaluation test flights for F-16.
  - Initiate Force Deployment Evaluation for F-16.
  - Initiate third software block cycle upgrade.
  - Complete first software block cycle upgrade.

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## 3. FY 2003 PLANS:

- EMD Terminal and Platform Integration Support (\$7.094)
- Initiate Operational Assessment for F-16.
- Complete second software block cycle upgrade.
- Complete F/A-18 Operational Evaluation.
- Initiate Follow-On Test and Evaluation for F/A-18.
- Achieve Milestone III decision.
- Implement study recommended approach for Technology Enhancements.
- Initiate High Level Language Central Processing Unit upgrade.
- Continue correction of EMD deficiencies resulting from operational testing and evaluation.
- Provide limited SE&I support capabilities for EMD terminals and platform test, installation, and integration requirements.
- Continue software enhancements/upgrades and hardware upgrades for Army terminals, LVT(2).
- Continue Developmental Test and Evaluation terminal support and test flights for F-16.
- Continue Force Deployment Evaluation for F-16.
- Continue Operational Assessment for F-16.
- Conduct MIDS on Ship Technical evaluation and Operational evaluation.

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B. Program Change Summary

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
Previous President's Budget	12.075	7.601	6.898	Continued
Appropriated Value	12.075			
Adjustments to Appropriated Value				
a. Congressional Directed Undistributed Reductions		-.157		
b. Rescission/Below threshold Reprogramming, Inflation Adjustments		3.414		Continued
c. Other			.196	
FY 2003 President's Budget Submit	12.075	10.858	7.094	Continued

## Change Summary Explanation:

FY 2002: Adjustments for FFRDC reductions (Section 8032), and Cross-cutting congressional adjustments (Section 8123) -.157. Realignment of funds from P771 to P773 in support of the SE&I contract and the High Level Language CPU upgrade \$3.414 million.

FY 2003: Transfer of funds to AF CSEL program and non-pay purchase inflation adjustments -3.969. Realignment of funds from P771 to P773 in support of the SE&I contract and the High Level Language CPU upgrade \$4.165 million.

Schedule: N/A

Technical: N/A

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C. Other Program Funding Summary

	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>	<u>Total Cost</u>
Procurement:								
APN								
BLI 052500	47.234	32.373	48.577	48.746	51.294	43.667	49.862	Cont.
BLI 014500			13.000	13.000	13.400	13.700	14.000	Cont.
OPN								
BLI 261400			3.702	7.251	1.128	3.431		Cont.
APF								
PE0207134F/PE0207130F	22.700							Cont.
PE0207133F	13.600	31.900	37.000	27.900	22.700	23.200	20.900	Cont.
Proc, DW								
PE0208864C/5C	3.500	2.900	2.200					Cont.
PE0208861C					1.300	1.500	2.600	Cont.
Related RDT&E								
PE0205604N	16.509	21.256	17.965	8.283				Cont.
PE0604270N	1,300							1.300
PE0207133F								3.500
PE63883C		.500						Cont.
PE64240F	1.300							
Cont.								

SCN - Funding for MIDS hardware is not separately identified in the SCN budget exhibits.

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D. Acquisition Strategy

USD(AT&L) approved the FY00 procurement of MIDS terminals based on the favorable LRIP DAB review on 27 April 2000. The approval included procurement of 70 MIDS terminals and associated spares and an additional 11 terminals for emergent lab and test requirements. This decision is consistent with the Acquisition Strategy Report (ASR) approved by USD(AT&L) in November 1999. The FY00 MIDS LRIP terminals were equitably split between the two US-led contracts. FY01 and out-year quantities will be competitively procured. USD(AT&L) has directed that after completion of the US-led and European-led MIDS terminal production qualification efforts, the production requirements of all MIDS participants will be combined and competed among the US and European qualified MIDS manufacturers. For LRIP Lot 2, an OIPT was held on 10 August 01. The OIPT approved a two phased LRIP buy and recommended to USD (AT&L) to proceed with the acquisition of MIDS terminals without a formal DAB. The first phase was approved for 59 terminals and spares in September 2001. The second phase is for 60 terminals and emerging requirements. The second phase occurred in November 2001 after USD(ATL) reviewed DOT&E's assessment.

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E. Schedule Profile

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
<b>Program</b>	Supp 3 1Q/01		
<b>Milestones</b>	LRIP Lot 2 4Q/01	LRIP Lot 3 3Q/02	MS III 4Q/03
<b>EMD Contract</b>		Contract close-out 4Q/02	
<b>System Engineering &amp; Integration</b>		S/W BC1 Upgrade 3Q/02	
Deliveries:			S/W BC2 Upgrade 3Q/03
<b>T &amp; E Milestones</b>			
Ships	DT 3Q/01		TECHEVAL/OPEVAL 3Q/03
F/A-18		TECHEVAL 3Q/02	OPEVAL 1Q/03
Army		IOT&E 3Q/02	
F-16			DT&E Continue >>

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EXHIBIT R-3, FY 2001/2003 RDT&amp;E,DW PROJECT COST ANALYSIS

DATE: February 2002

BUDGET ACTIVITY: 5

PROGRAM ELEMENT: 0604771D8Z

PROJECT NUMBER: P771

PROJECT TITLE: COMMON JOINT TACTICAL

INFORMATION

Exhibit R-3 Cost Analysis (page 1)								Date: February 2002				
APPROPRIATION: RDT&E, DW BUDGET ACTIVITY : 5			PROGRAM ELEMENT: 0604771D8Z					COMMON JOINT TACTICAL INFORMATION				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
LINK-16 Spectrum Support		Various	9.498	.171	Various	750						
LINK-16 Engineering Support		Various	3.124	3.414	Various	2.113	Various	.892	Various	Cont.	Cont.	Cont.
LINK-16 Support		Various	3.982									
LINK-16 Enhancements		Various	.426	.200								
LINK-16 Missile Tactical Terminals		TBD				1.000	Feb 02	1.100	Jan 03	Cont.	Cont.	Cont.
Gateways		TBD				.607	Feb 02	.681	Jan 03	Cont.	Cont.	Cont.
Dynamic Network Management		TBD				.700	Feb 02	.720	Jan 03	Cont.	Cont.	Cont.
JICO Toolset (JSS)		Various	.289	.240	Various	.300	Feb 02	.310	Jan 03	Cont.	Cont.	Cont.
Subtotal Product Development			17.319	4.025		5.470		3.703		Cont.	Cont.	Cont.
Remarks:												
<b>Total Cost</b>			17.319	4.025		5.470		3.703		Cont.	Cont.	Cont.

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Exhibit R-3, Project Cost Analysis

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EXHIBIT R-3, FY 2001/2003 RDT&amp;E, DW PROJECT COST ANALYSIS

DATE: February 2002

BUDGET ACTIVITY: 5

PROGRAM ELEMENT: 0604771D8Z

PROJECT NUMBER: P773  
PROJECT TITLE: COMMON JT TACTICAL INFO

Exhibit R-3 Cost Analysis (page 1)									Date: February 2002			
APPROPRIATION: RDT&E, DW BUDGET ACTIVITY : 5			PROGRAM ELEMENT: 0604771D8Z/P773						COMMON JT TACTICAL INFORMATION			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<b>Product Development</b>												
Primary Hardware/Software Development	CPIF	MIDSCO Wayne, NJ	191.812	0		0				0	191.812	196.590
Pre-operation EMD Terminal Support	CPIF	MIDSCO Wayne, NJ	2.706	0		0				0	2.706	2.706
Software Support	FFP	BAE Systems Wayne, NJ	0	2.192	Dec 01	2.146	Dec 02			0	4.338	4.338
Software Support Activity		TBD						2.296	Jan 03	9.120	11.416	11.416
<b>Subtotal Product Development</b>			194.518	2.192		2.146		2.296		9.120	210.272	215.050
Remarks: The MIDSCO EMD contract period of performance ended 30 June 2000, with the exception of contract close-out activity. A new System Engineering and Integration contract was awarded in June 2000 to complete unfinished EMD work scope and to provide continued EMD terminal support.												
<b>Support Costs</b>												
Production Readiness Agreements Mfg Prototyping	FFP	Allied Signal Teterboro, NJ	3.189	0		0				0	3.189	3.189
Production Readiness Agreements Mfg Prototyping	FFP	Viasat Carlsbad, CA	6.346	0		0				0	6.346	6.346
Production Readiness Agreements Mfg Prototyping	FFP	Data Link Solutions Cedar Rapids, IA	1.000	0		0				0	1.000	1.000
Production Readiness Agreements	FFP	Thompson-CSF Colombes Cedex, France	1.000	0		0				0	1.000	1.000
Production Readiness Agreements	WX	SSC SD San Diego, CA	.795	0		0				0	.795	.795
<b>Subtotal Support</b>			12.330	0		0				0	12.330	12.330

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Exhibit R-3, Project Cost Analysis

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EXHIBIT R-3, FY 2001/2003 RDT&amp;E, DW PROJECT COST ANALYSIS

DATE: February 2002

BUDGET ACTIVITY: 5

PROGRAM ELEMENT: 0604771D8Z

PROJECT NUMBER: P773  
PROJECT TITLE: COMMON JT TACTICAL INFO

Exhibit R-3 Cost Analysis (page 2)								Date: February 2002				
APPROPRIATION: RDT&E,DW BUDGET ACTIVITY : 5				PROGRAM ELEMENT: 0604771D8Z/P773				COMMON JOINT TACTICAL INFORMATION				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys Cost	FY 01 Cost	FY 01 Award Date	FY02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<b>Test &amp; Evaluation</b>												
System Engineering	WX	SSC SD – Code 64 San Diego, CA	6.800	.439	Sep 01	.386	Jan 02	.377	Jan 03	0	8.002	8.002
System Engineering	WX	SSC SD – Code 45 San Diego, CA	9.270	.049	Sep 01	.015	Jan 02	.017	Jan 03	0	9.351	9.351
Software Support	MIPR	Warner Robins Robins AFB, GA	2.062	.430	Sep 01	.445	Jan 02	.460	Jan 03	0	3.397	3.397
System Engineering	MIPR	MITRE Ft. Monmouth, NJ	1.939	.533	Oct 01	.550	Oct 02	.550	Oct 03	0	3.572	3.572
System Engineering, and Integration	FFP	BAE Systems Wayne, NJ	5.933	6.502	Various	6.391	Various	2.886	Various	0	21.712	21.712
System Engineering	Various	Various	15.182	1.505	Jan 01	.550	Jan 02	.147	Jan 03	0	17.384	17.384
<b>Subtotal T&amp;E</b>			41.186	9.458		8.337		4.437		0	63.418	63.418
Remarks												
<b>Management Services</b>												
Program Management Support	FFP	Vredenburg Carlsbad, VA	2.306	0		0				0	2.306	2.306
Miscellaneous Program Support	FFP/ WX/PD	Various	9.897	.425	Jan 01	.375	Jan 02	.361	Jan 03	0	11.058	11.058
Contract Services	MIPR	AF Pentagon Washington, DC	1.400	0		0				0	1.400	1.400
<b>Subtotal Management</b>			13.603	.425		.375		.361		0	14.764	14.764

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Exhibit R-3, Project Cost Analysis

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EXHIBIT R-3, FY 2001/2003 RDT&amp;E, DW PROJECT COST ANALYSIS

DATE: February 2002

BUDGET ACTIVITY: 5

PROGRAM ELEMENT: 0604771D8Z

PROJECT NUMBER: P773

PROJECT TITLE: COMMON JT TACTICAL INFO

Exhibit R-3 Cost Analysis (page 3)								Date: February 2002				
APPROPRIATION: RDT&E,DW BUDGET ACTIVITY : 5				PROGRAM ELEMENT: 0604771D8Z/P773				COMMON JOINT TACTICAL INFORMATION				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys Cost	FY 01 Cost	FY 01 Award Date	FY02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
<b>Total Cost</b>			261.637	12.075		10.858		7.094		9.120	300.784	305.562
Remarks												
<b>AWARD FEES</b>  The award fee on contract has been reduced from \$15.7 million to \$8.2 million due to recognition that the contractor's performance does not support award fee payout at the amount originally established. After this reduction, the U.S. share of the entire Award Fee on contract is approximately \$3.4 million. Contractor performance earned one award fee payment in June 1995, of which the US share was \$471,582 and one award fee payment for the period ending November 1995, of which the US share was \$101,120. The percentage of award fee paid based on the reduced fee amount of \$8.2 million is approximately 29%. The percentage of award fee paid based on the original fee amount of \$15.7 million is 17%.												

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